purchasing power from Dabhol project or just paying penalty as per the provisions of the Power Purchase Agreement; and

(d) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA): (a) Yes, Sir.

(b) As informed by the Maharashtra State Electricity Board (MSEB), the Board has purchased 3S60 Million Units from Dabhol Power Company (DPC) from 13.5.1999 to 31.3.2000. The tariff payable to DPC is based on fixed charge and variable charge. The fixed capacity charge is payable based on the availability of the plant and does not depend on number of units purchased. Variable charge is payable based on variable O&M and fuel cost (Naphtha) and depends on number of units purchased. Based on above purchase, the average rate works out as Rs. 4.34 per unit.

(c) and (d) According to MSEB, they are regularly purchasing power from the Dabhol Power Company.

Modernisation and Renovation of Hydro-Electric Plants

1978. SHRI P.K. MAHESHWARI: Will the Minister of POWER be pleased to state:

(a) whether Government had started any scheme in 1987 to increase 500 mega watt hydroelectric capacity by modernising and renovating 55 hydro electric plants of the country; and

(b) if so, the details of the success achieved so far, plant-wise?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA): (a) and (b) 55 hydro-electric schemes were identified in 1987 for Renovation, Modernisation and Operating works to accrue a benefit of 2531 MW. Out of these, 25 hydro schemes have so far been completed with an actual benefit of 1402.7 MW against an expected benefit of 1313 MW. Plant-wise details of these schemes are given in Statement.

Statement

Completed RM&U Hydro Schemes [Phase-I] [As on 30.6.2000]

SI. No.	Name of Scheme	Installed Capacity (MW)	Est. Cost/ Actual Cost Rs. Crs.	Anticipated Benefits. MW	MU	MW	Actual Benefits MU	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
UPRATING & PREVENTION OF CAPACITY LOSS				6	28	—	—	
1.	Giri H.P.	2X30	9.857.90					Uprating could not be achieved. Reason not known.
2.	Nagjhari (U-2) Karnataka	6X135	11.97/11.32	15	—	15	—	Unit 2 was uprated from 135 MW to 150 MW.
3.	Ganguwal (U-2) BBMB	2X24.2+ 1x29.25	18.9015*	3.43 24.20	27.98 217.50	27.63	—	Unit 2 has been uprated from 24.2 MW to 27.63 MW and also life extended. *Exp. till 12/97.
4.	Kotla (U-3) BBMB	2x24.2+ 1X29.25	18.90/16.90*	3.92 24.20	31.98 217.50	28.12	—	Unit 3 has been uprated from 24.2 MW and 28.12 MW and also life extended. *Exp. till 9/ 98.
5.	Sharavathy (U9&10) Karnataka	2x89.1	17.9614.68*	47.9		47.9	—	Unit 9 was uprated from 89.1 MW to 103.5 MW while Unit 10 was uprated from 70 MW to 103.5 MW. *Exp. till 3*98.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
6.	Sharavathy (U 1to8) Karnataka	8x89.1	65.00/63.49*	115.2 178.2	—	471.6		All the units have been uprated from 89.1 MW to 103.5 MW.
7.	Baira Siul NHPC	3x60	25.90	18.00	85	18		Units were uprated from 60 MW to 66 MW.
8.	Hirakud-I (U1&2) OHPC	2x37.5	90.2693.88*	22.5 75.0	28.0 247.0	97.0		Both the Units uprated from 37.5 MW to 49.7 MW. Life extended by 25 years. *Exp. till 5/2000.
9.	Tiloth U.P.	3x30	8.025.513*	9	55	6	25	Each unit was uprated by 2 MW. *Exp. till 599.
10.	Koyna I & II Maharashtra	4x65+4x75	38.5374.91*	280	1360	300		All the units were uprated by 5 MW. Life of all units extended by 25 years. *Exp. till 9/99.
RESTORATION								
11.	Ukai (U1&3) Gujarat	4X75	20.17/24.99	75.0	43.0	75.0	—	Unit 1 & 3 restored and uprated by 9 MW each.
12.	Chenani J&K	5x4.66	11.00	0.93	—	0.93	—	Restored.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
13.	UBDC-I Punjab	3x15	11.00/8.00	11.0	146.26	11.0	___	Uprating achieved.
14.	Kadamparai (U3&4) Tamil Nadu	4x100	23.17/33.69	200	61	200		Two units restored which.were damaged due to fire accident.
15.	Khandong (Ul) NEEPCO	2X25	0.62/0.62	25.0	108.0	25.0	—	Unit 1 was restored.
16.	Dehar (U2.3&4) BBMB	6x165	46/10.74	25.00		25.0		Unit 2 restored, to its rated capacity. Work on Unit 3&4 will taken in R&M Phase-2 as these are working satisfactorily.
PREVENTION OF CAPACITY LOSS								
17.	Shivasamudram Karnataka	6x3+4x6	8.00	18.00	90.0	18.0	—	Life extended. System was put in parallel with existing grid.
18.	Moyar Tamil Nadu	8x12	1.62/1.3	36.0	115.0	36.0	—	Life extended.
19.	Rihand U.P.	6x50	1.43	100.0	287.0			Due to financial constraints work was limited to renovation of intake & draft tube gates which were in operative.
RENOVATION								
20.	Sholayar Kerala	3x18	7.5/5.725	—	—	—	—	Reliability increased.
21.	Kundah-III (U1&2) Tamilnadu	3x60	5.45/3.2		8.12			Life of turbine increased. Efficiency increased by 3.5%.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
22.	Sholayar-I Tamilnadu	2x35	1.40/0.85	—	91.80	—	— Life of generator increased.	
23.	Gumti Tripura	3x5	17.50/17.50	—	5.6	—	— Water Conductor system was augmented.	
24.	Koyna-III (U10/ 12) Maharashtra	4x80	0.8/4.65*				— Renovated. *EXD. till 9/97.	
25.	Chilla U.P.	4x36	4.26/4.1136*		15		15 Reliability increased. Forced outages reduced. *Exp. till 5/ 99.	

Expected Benefit from 25 schemes = 1313 MW
Actual Benefit from 251 schemes = 1402.7 MW